

● PRINTER RUSH ●

(PTO ASSISTANCE)

Application : <u>10/714,682</u>	Examiner : <u>Chang</u>	GAU : <u>3748</u>
From: <u>DP</u>	Location: <u>(IDC)</u> FMF FDC	Date: <u>11/16/05</u>
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DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449		<input type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS		<input type="checkbox"/> Foreign Priority
<input type="checkbox"/> CLM		<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW		<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW		<input type="checkbox"/> Other
<input type="checkbox"/> DRW		
<input type="checkbox"/> OATH		
<input type="checkbox"/> 312		
<input checked="" type="checkbox"/> SPEC	<u>11/13/2003</u>	

[RUSH] MESSAGE: Specification: page # 1 line # 10 Need.
US Serial No. _____

Thank you

[XRUSH] RESPONSE: _____


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 REV 10/04

5 COMPUTER READABLE STORAGE MEDIUM FOR USE WITH ENGINE HAVING
 VARIABLE VALVE ACTUATOR DURING DEGRADATION

Cross Reference

 10 The present application incorporates by reference, for all
purposes, the entire contents of U.S. Serial No. 10714167,
titled "COMPUTER READABLE STORAGE MEDIUM FOR USE WITH ENGINE
HAVING VARIABLE VALVE ACTUATOR", attorney docket number: 203-
0359 (81090529), file number FGT.3D2, filed November 13, 2003.

15 Technical Field

The field of the invention relates to engines having
variable valve actuators, and in particular to methods for
controlling transient behavior of said actuators.

20 Background and Summary of the Invention

During internal combustion piston engine operation, the
piston moves between a bottom dead center (BDC) and a top dead
center (TDC) position. When operating near the TDC position,
depending on various parameters, there may be physical
25 interference between the engine's valves and the piston.

U.S. Patent 6,401,675 describes calculating control ranges
for variable valve timing and variable valve lift actuators in
the event one of the actuators degrades to prevent such
interference from occurring.

30 The inventors herein have recognized a disadvantage with
such an approach. In particular, the system actuators may be
functioning, yet various sensors may be degraded. As such, if a
signal provides incorrect information, the controller may